Karen MacClune Kari Hansen-Tyler Sarah Opitz-Stapleton

Building Resilience; a simpler way to approach adaptation practice

National Adaptation Forum April 3, 2013 Denver, CO

www.i-s-e-t.org



Training agenda; Part 1

8:30-8:45	Introductions & ice breaker
8:45-9:00	Short Presentation
9:00- 9:10	Small group activity; mapping a core system
9:10 -9:25	Presentation and discussion
9:25-9:45	Small group activity; characteristics of resilience in core systems
9:45- 10:00	Intro to the Resilience Framework

Coffee Break!

Training Agenda; Part 2

10:30 -11:00	The Resilience Framework: -Vulnerability Assessment - Use of Shared Learning Dialogue & iterative engagement - Building resilience
11:00- 11:15	Plenary Discussion: Examples of Resilience Actions
11:15-11:25	Small Group Activity: Shared Learning Dialogues
11:25- 11:45	Discussion; Monitoring & Evaluation
11:45- 12:00	Closing

Our Approach

Resilience;
Change the way you think
... Use what you already know
(tools, strategies, methods and networks)

Our Approach

Resilience;

the challenge is not about planning for what you can predict, but about planning for the uncertainty

- Systematic approach to complex challenges
- Change the way we think & approach issues
- use existing tools, methods and knowledge

A systematic approach to thinking about complex challenges...





PHYSICAL and ECO-SYSTEMS





AGENTS









DISRUPTION

An event such a climate or other natural hazard, economic downturn, food crisis, etc.

AGENTS

Individuals, households, communities, businesses, government organizations, NGOs, etc.

INSTITUTIONS

Rules and social conventions that guide interactions of agents with each other and access to systems

SYSTEMS

Includes both physical infrastructure and ecosystems.

Think of these as big baskets... Simple mental organizational tool Overlap is Ok





PHYSICAL and ECO-SYSTEMS





AGENTS

Small Group Activity

Identify:







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SYSTEMS

Includes both physical infrastructure and ecosystems.

In core systems

(water, land use planning, infrastructure, ecosystem services related ...)

Questions?

Resilience

Is Resilience the opposite of Vulnerability?

Does Resilience have an end state?
Can you arrive at "Resilient"?



PHYSICAL and **ECO-SYSTEMS**

Modularity and Redundancy Flexibility and Diversity Safe Failure



AGENTS

Responsiveness Learn Resourcefulness



INSTITUTIONS

Inclusive Informed Adaptable **Good Governance**



Flexibility & Diversity

Multiple water pumping stations in different locations handle variable water demand and will not all be affected by flood. Community flood shelters may be used as clinics or meeting halls.

Redundancy & Modularity

Multiple pumps with backup energy supply for water system provides redundancy. Water tanker trucks provide modularity: if one fails the system is not seriously affected.

Safe failure

Dikes and floodways channel extreme floods into wetlands or retention zones where they have minimal damage.

Multiple forms of transport or access roads provide service to a community in case one fails.



Responsive & Re-organizing

Contingency planning for reservoir management under extreme events.
DRR planning, training and re-structuring for community organizations.
Household emergency preparedness.

Resourceful

Increased awareness builds capacity to visualize and plan for future climate conditions.

Vulnerable social groups are assured access to information, funding and essential services to enable adaptation.

Capacity to Learn

Monitoring of performance of key systems and organizations leads to identification of opportunities for improvement



Inclusive

Institutions assure that marginalized social groups can access key systems and maximize their existing capacities. E.g. all community members have equal access to water and electricity.

Good Governance

Decision-making processes are transparent, representative and accountable; diverse stakeholders have ways to provide meaningful input to decisions.

Informed

Decision-makers can access the information needed to make judgments about risk and vulnerability, and to determine effective autonomous adaptation actions

Adaptable

When presented with evidence of need to change, institutions can change or modify as needed

Questions?



PHYSICAL and **ECO-SYSTEMS**

Modularity and Redundancy Flexibility and Diversity Safe Failure



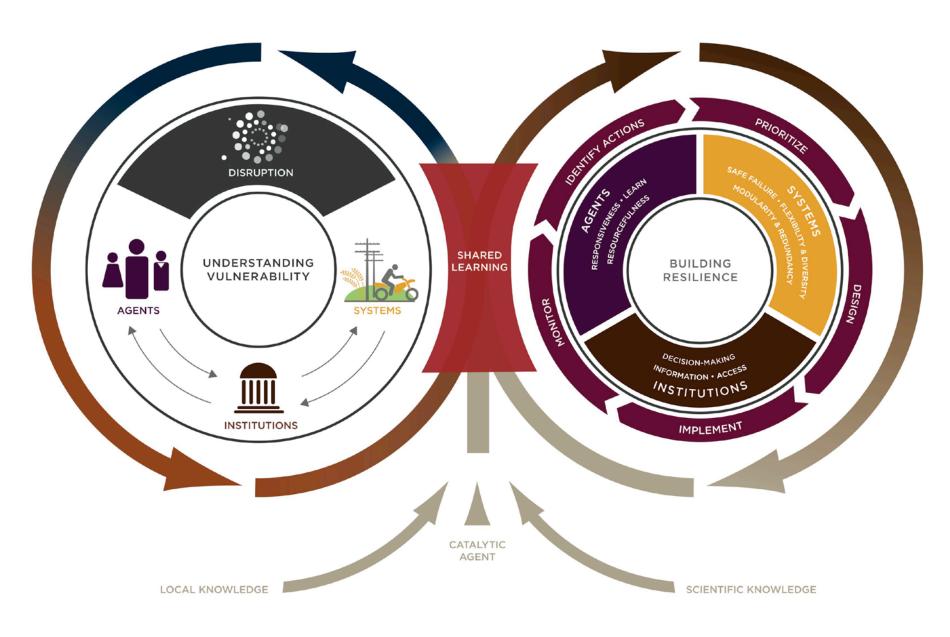
AGENTS

Responsiveness Learn Resourcefulness



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.. More coming soon, after the break

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PART 2

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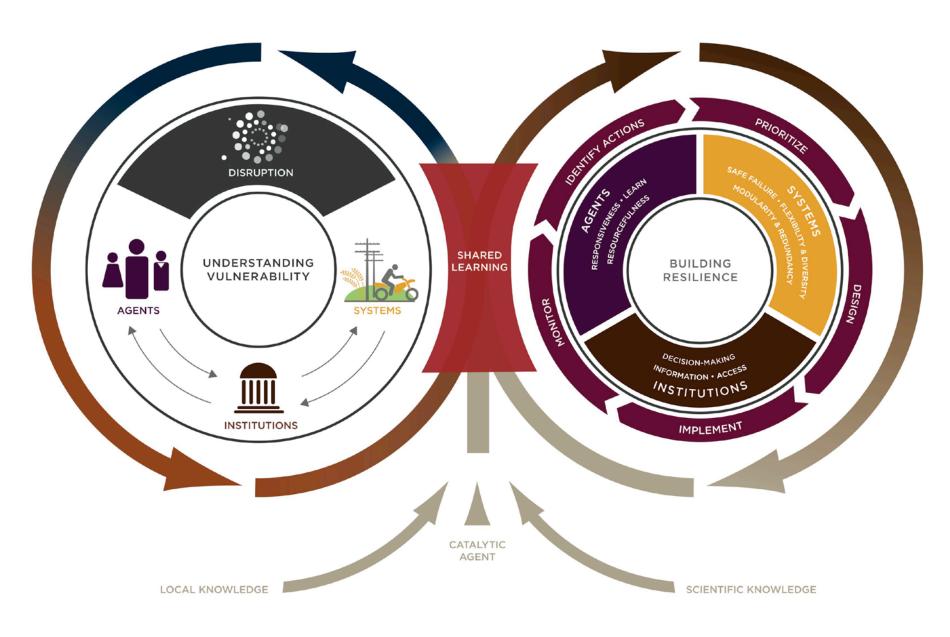
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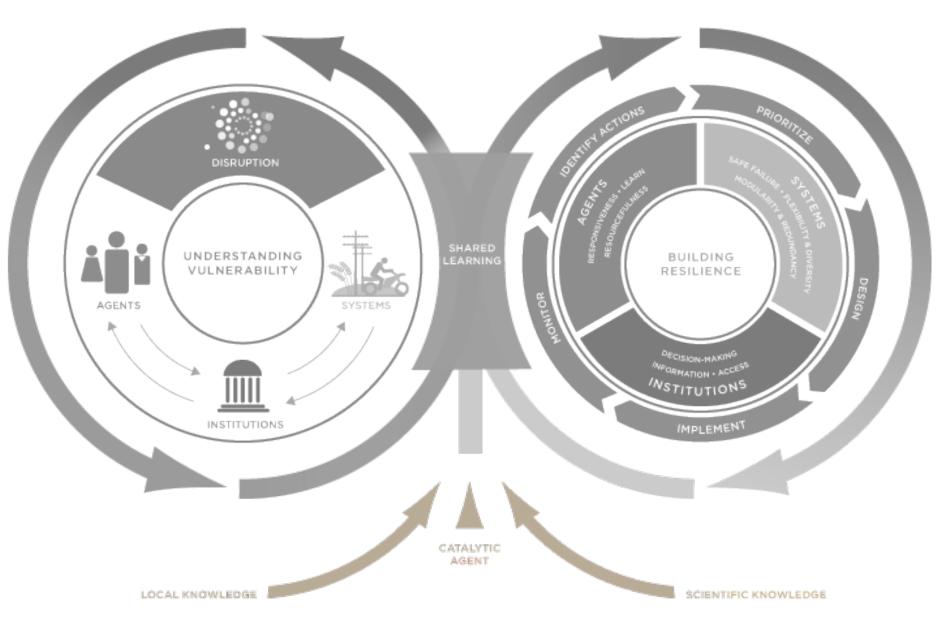


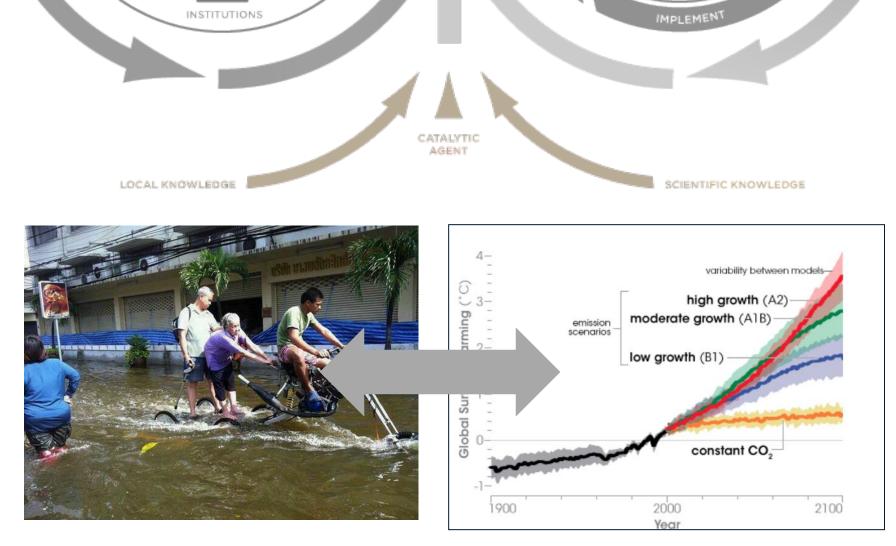


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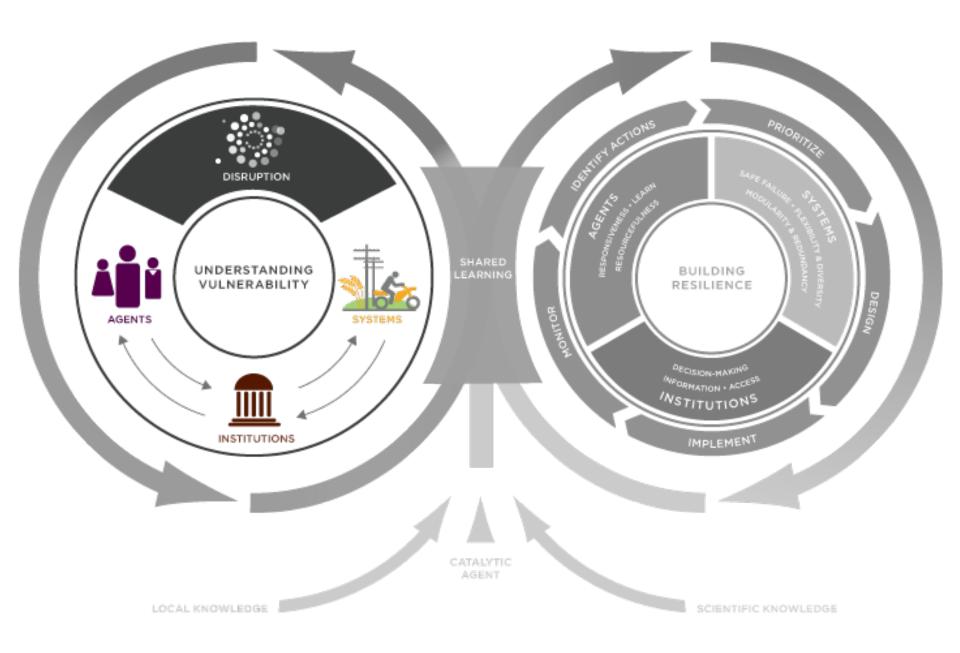




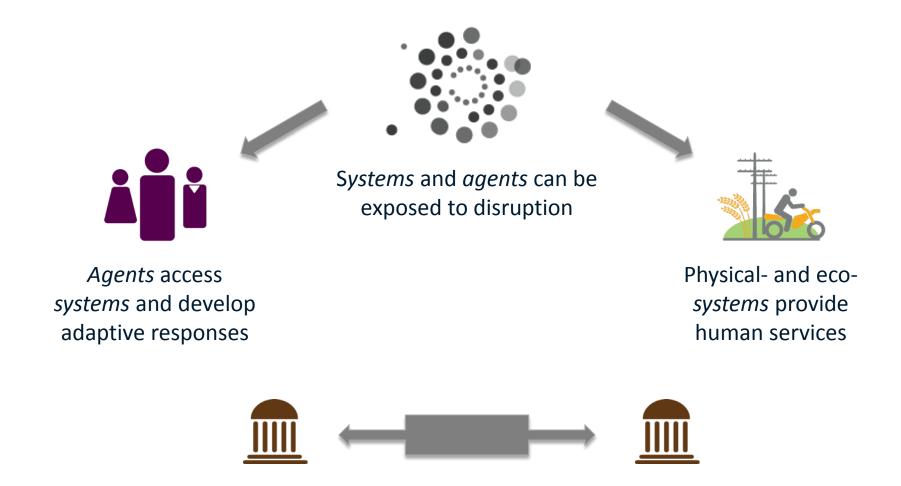


Local Knowledge

Scientific Knowledge



UNDERSTANDING VULNERABILITY



Institutions constrain or enable effective responses to *system* fragility and the ability to build *agent* capacity







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Rules and social conventions that guide interactions of agents with each other and access to systems

SYSTEMS

Includes both physical infrastructure and ecosystems.

Fragile systems
low capacity agents
weak institutions
+ exposure or disruption

= VULNERABILITY



WHAT?

Urban systems: ecosystems, infrastructure, Knowledge?



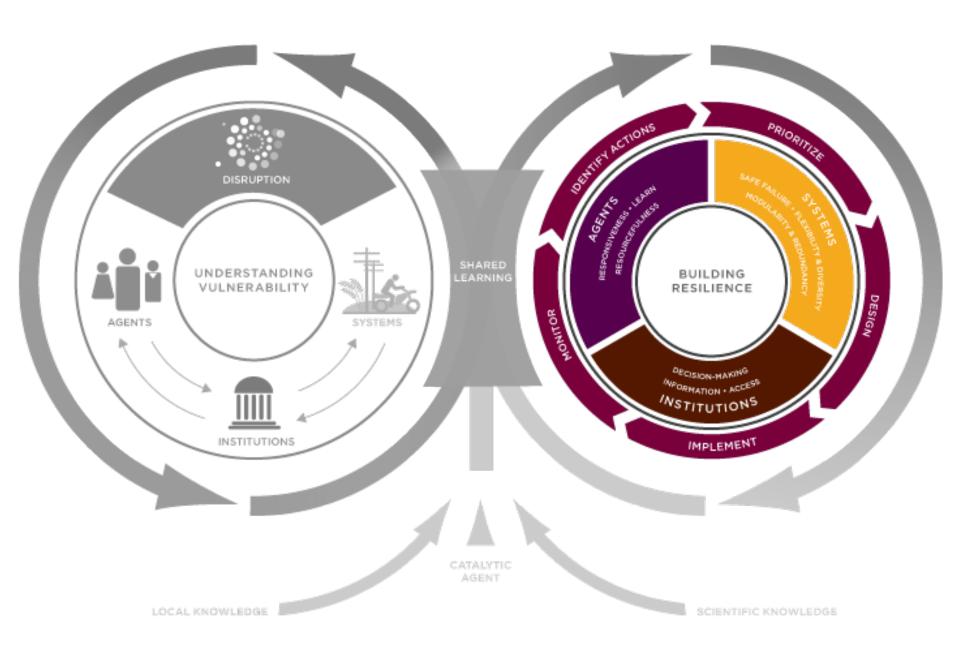
HOW?

Institutions:
rights and
entitlements,
decision-making,
information?



WHO?

Agents:
what is their behavior,
socio-economic position,
and ability to take action?



BUILDING RESILIENCE

Addressing Vulnerability





Reducing exposure
Building capacity
Decreasing sensitivity







PHYSICAL and ECO-SYSTEMS

Modularity and Redundancy Flexibility and Diversity Safe Failure



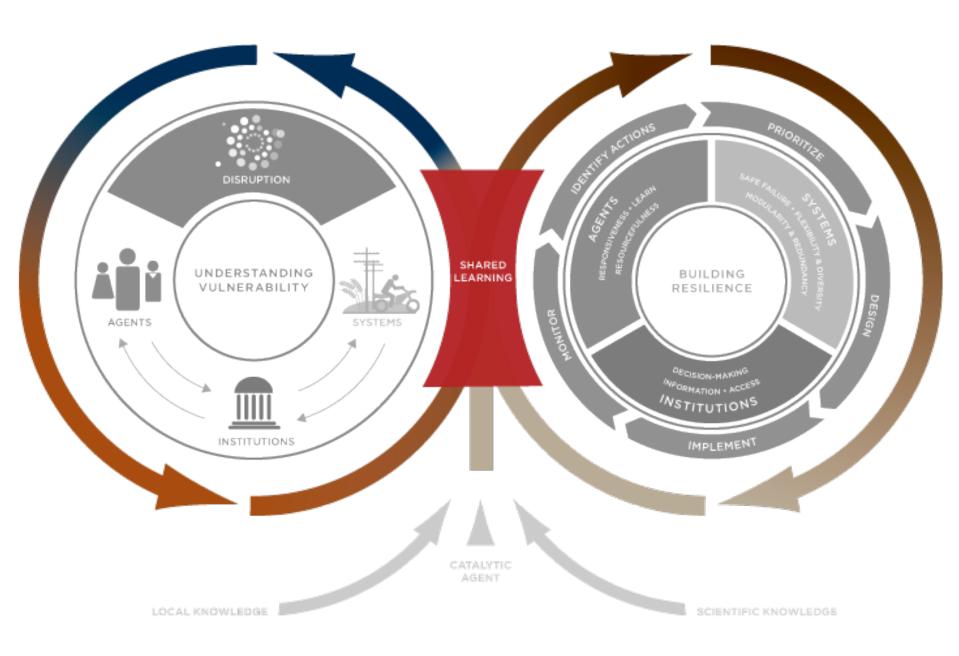
AGENTS

Responsiveness Learn Resourcefulness

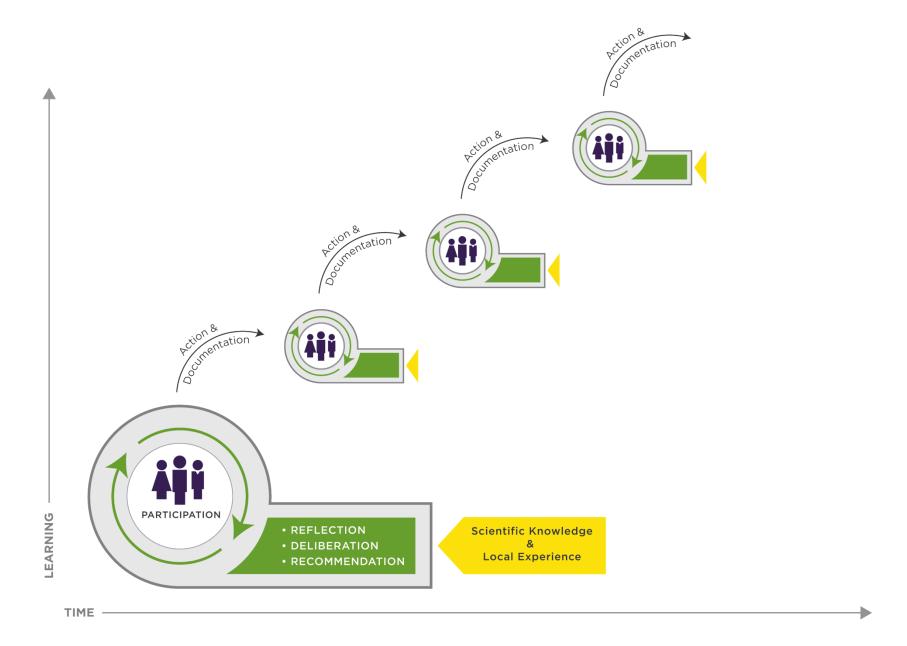


INSTITUTIONS

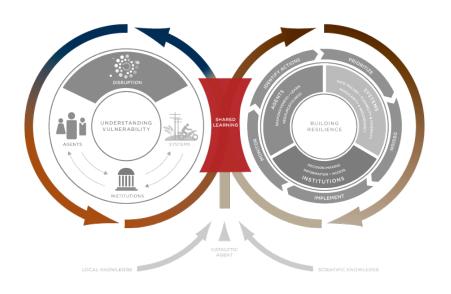
Inclusive
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Good Governance



SHARED LEARNING DIALOGUES

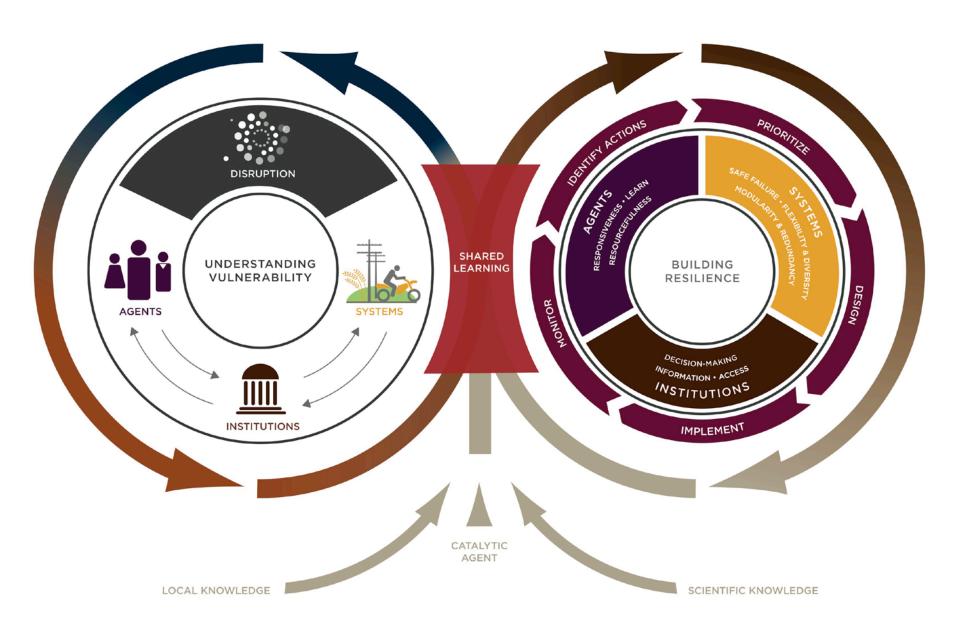


SHARED LEARNING DIALOGUES



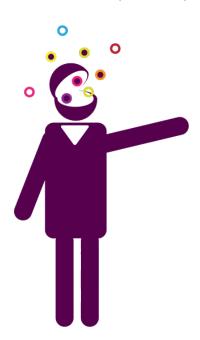
CHARACTERISTICS OF SLDs

- SHARING: the stage and/or microphone; common purpose; and, to respond to the needs of others.
 - Everyone has an equal chance to speak, with confidence they will be heard
- LISTENING with mutual respect and purpose.
- LEARNING: participants are engaged in a variety of ways to support different learning styles
- DIALOGUE: use of at least one dialogue technique
 - including FEEDBACK & EVALUATION



USING THE RESILIENCE FRAMEWORK CONCEPTUALLY

- Applicable at multiple scales and in rural and urban settings
- Recognize multiple sources of vulnerability
- Focus on strategic issues and processes rather than specific projects



USING THE RESILIENCE FRAMEWORK IN PRACTICE

- Each activity part of an integrated, strategic approach
- Accommodate high uncertainty through iterative processes
- Develops overall picture and how the different pieces fit together
- Clear structure for prioritizing adaptation actions and integrating with other planning activities that is easily explained to decision-makers and funders





Discussion: examples of resilience building





PHYSICAL and ECO-SYSTEMS

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Responsiveness Learn Resourcefulness

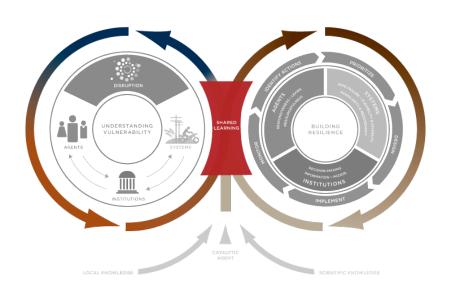


INSTITUTIONS

Inclusive
Informed
Adaptable
Good Governance

Small group discussion: Effective engagement strategies





Primarily about building relationship

- Committed individuals
- Designated staff
- Strong communication skills

Using the Resilience Framework for Monitoring & Evaluation



Example Indicators

Water Supply:

- Diversity of sources
- Share of supply from groundwater
- Frequency of quality failures
- Capacity limits under stress
- Alternatives to supply
- Number of different sectors involved in water planning
- Number of organizations involved in water planning
- Accessibility to poor
- Community involvement in setting water tariff
- Public information about water supply and quality

Example Indicators

- Flood prevention and drainage
 - Length of dikes
 - Protected forest area upstream
 - Area flooded
 - Diversity of drainage system
 - Green space as % of urban area
 - Flood vulnerability maps widely available
 - Integration of DRR plans from community to city level
 - Community participation in flood prevention plans
 - Community involvement in drain maintenance

Big basket concepts...







Why these baskets?









DISRUPTION

AGENTS

INSTITUTIONS

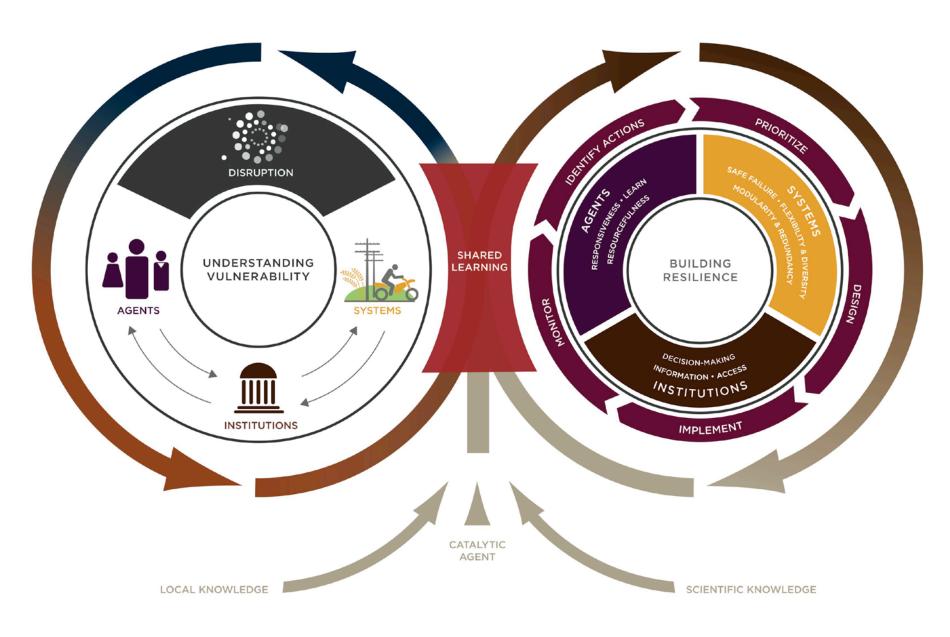
SYSTEMS

Existing expertise, theories of change, change management approaches monitoring & evaluation tools already exist in these categories

Using these 'baskets' to systematize your approach helps you quickly identify assets and gaps at *all* phases of the planning process

Remember

Resilience;
Change the way you think
... Use what you already know
(tools, strategies, methods and networks)



MANY THANKS!

For more information, please visit:

www.i-s-e-t.org & Training.i-s-e-t.org

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